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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/606,479	06/26/2003	Robert J. Smith JR.	16930-1	5653
23486	7590	06/30/2004	EXAMINER	
SHUTTLEWORTH & INGERSOLL, P.L.C. 115 3RD STREET SE, SUITE 500 P.O. BOX 2107 CEDAR RAPIDS, IA 52406			MACARTHUR, VICTOR L	
			ART UNIT	PAPER NUMBER
			3679	

DATE MAILED: 06/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/606,479

Applicant(s)

SMITH ET AL.

Examiner

Victor MacArthur

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 4/28/04.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-15, 18, 19 and 21-23 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-15, 18, 19 and 21-23 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

**DETAILED ACTION*****Claim Objections***

Claim 15 is objected to because of the following informalities:

- Claim 15 should be amended to depend from claim 2 rather than claim 1 in order to give proper antecedent basis to the limitation “latching mechanism” (lines 1-2 of claim 15).

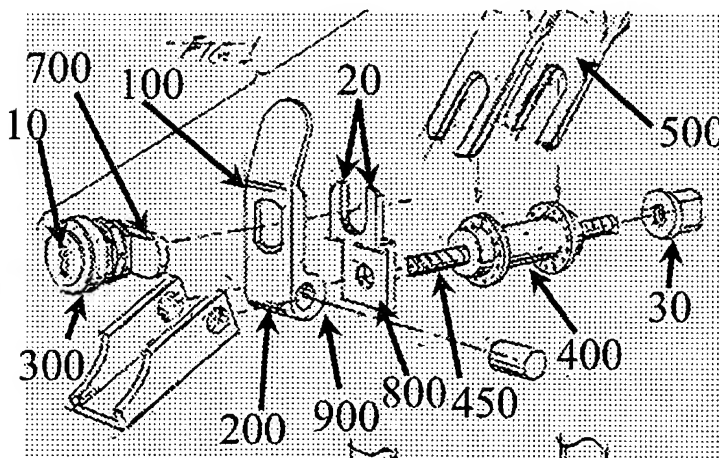
Appropriate correction is required. For purposes of examining the instant invention, the examiner has assumed these corrections have been made.

***Claim Rejections - 35 USC § 103***

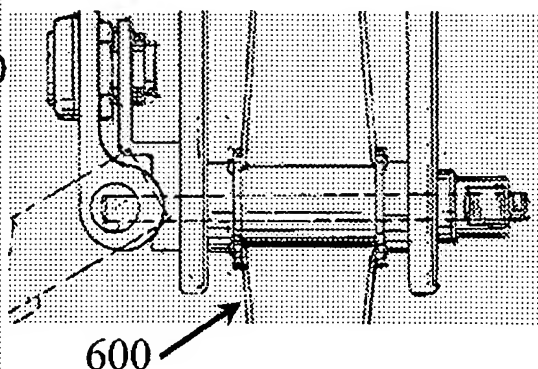
The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-13, 15, 18, 19 and 21-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Katsouros U.S. Pub.20020026816 (see marked-up figures below) in view of Chang U.S. Patent 5479836.



Marked up Fig.1



Marked-up Fig.2

Claim 1. Katsouros discloses a locking quick release device for lockingly affixing a removable component (500) to a fixed component (100, 200 and 400 are fixed to wheel 600), the fixed component having a first member (100, 200) and a second member (400) moveable toward and away from each other between a first position (as seen in fig.2) in which the removable component is affixed to the fixed component and a second position (seen in fig.3) in which the removable component is removable from the fixed component, said locking quick release device comprising: a lever (100, 200) having a handle end (100) and a pivot end (200), the lever being movable about the pivot end between an open position and a closed position so that movement of the lever to the closed position causes the members to move to the first position and movement of the lever to the open position causes the members to move to the second position; and a locking mechanism (300) operatively combined with the handle end of the lever to selectively prevent movement of the lever about its pivot end when the locking mechanism is actuated into a locked position. Katsouros discloses that the removable component is a set of bicycle forks (500). Katsouros does not disclose a seat post. Chang teaches (figs. 3-5, 8 and col.1-4) a removable component that is a bicycle seat assembly (B), and that a locking quick release device is attached to the bicycle seat assembly, for the purpose of securing a bicycle seat assembly against theft. Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify Katsouros to be used on a bicycle seat assembly, for the purpose of securing a bicycle seat assembly against theft.

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Claim 2. Katsouros as modified by Chang suggests that locking mechanism has a latching mechanism (700); and a receiving member (800) is combined with the fixed component for receiving the latching mechanism to provide for locking of the lever to the fixed component and thereby prevent removal of the bicycle seat assembly from the fixed component when the locking mechanism is actuated into a locked position.

Claim 3. Katsouros discloses that the receiving member is combined (in that 800 is attached to 100, 200) with the lever.

Claim 4. Katsouros as modified by Chang suggests discloses that the locking mechanism and lever are combined (via 400) with the bicycle seat assembly.

Claim 5. Katsouros discloses that the locking mechanism and lever are combined with the fixed component.

Claim 6. Katsouros discloses wherein the lever further comprises a cam surface (900) near the lever pivot end so that movement of the lever to the closed position moves the first and second members to the first position in which they are closer together, and movement of the lever to the open position moves the first and second members to the second position in which they are farther apart.

Claim 7. Chang teaches (fig.5 and col.1-4) first and second members (upper portions of A receiving 34) combined with a collar (lower portion of A receiving B) adapted to receive the bicycle seat assembly (B), the diameter of the collar becoming smaller as a lever (21) is moved to a closed position. The combination of Katsouros and Chang requires that the receiving member (Katsouros) extends from the collar (Chang) in a first direction (some arbitrary direction). Neither Katsouros nor Chang expressly state that the first and second members

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extend from the collar in a direction opposite to the first direction. It has generally been recognized that the rearranging of parts of an invention involves only routine skill in the art. In re Japikse, 86 USPQ 70. Accordingly, it would have been obvious to one of ordinary skill in the art to modify the device suggested by Katsouros and Chang such that the first and second members extend from the collar in a direction opposite to the first direction, as such practice is a design consideration within the skill of the art.

Claim 8. Katsouros discloses that the locking mechanism has a first end (near 700) and a second end (near 10) with a key slot (10) at the second end, said key slot being adapted to receive a key.

Claim 9. Katsouros discloses that the latching mechanism is turnable between a first and a second position when the key is inserted into and engaged within the key slot.

Claim 10. Katsouros discloses that the receiving member comprises a catch mechanism (20) that prevents the lever from moving to the open position when the latching mechanism is engaged in its second position and the lever is in the closed position.

Claim 11. Katsouros discloses that the catch mechanism is comprised of locking pins (elements 200 comprise locking pins within the broadest reasonable interpretation of the claim language).

Claim 12. Katsouros discloses a bore (receiving 450) through both the first and the second members; and a threaded member (450) having a first end (right end of 450) and a second end (left end of 450) with threads on the first end, said threaded member second end combined with the lever near the lever pivot end, said threaded member passing through the bore with said threaded member first end being threaded into one of the members so that rotation of the lever

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causes the threaded member to move the first and second members closer together and farther apart.

Claim 13. Katsouros discloses a bore (receiving 450) through both the first and the second members; an opening (opening in 500) in one of the members; a threaded member (450) having a first end (right end of 450) and a second end (left end of 450) with threads on the first end, said threaded member second end combined with the lever near the lever pivot end, said threaded member passing through the bore; and a thumb screw (30) threaded onto the threaded member first end so that a portion of the thumb screw extends from the opening in the member, said thumb screw capable of moving the first and second members closer together and farther apart when the thumb screw is moved relative to the threaded member.

Claim 15. Katsouros discloses that the latching mechanism is a locking plate.

Claim 18. Katsouros discloses a method for locking and unlocking a removable component to a bicycle frame wherein the removable component (400, 450) is positioned between two holding members (500) tightened by a movable lever (100) that includes a locking mechanism (300) that is engaged with a receiving member (20), said method comprising: inserting the removable component (400, 450) between the holding members; tightening the removable component between the holding members by moving the lever (100); moving the lever to a closed position (as seen in fig.2) wherein a portion of the locking mechanism becomes engaged with the receiving member; and operating the locking mechanism so that the lever is locked in the closed position. Katsouros discloses that the removable component is a set of bicycle forks (500). Katsouros does not disclose a bicycle seat assembly. Chang teaches (figs. 3-5, 8 and col.1-4) a removable component that is a bicycle seat assembly (B), and that a locking

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quick release device is attached to the bicycle seat assembly, for the purpose of securing a bicycle seat assembly against theft. Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify Katsouros to be used on a bicycle seat assembly, for the purpose of securing a bicycle seat assembly against theft.

Claim 19. Katsouros discloses that the locking mechanism includes a key slot (10) adapted to receive a key.

Claim 21. Katsouros as modified above suggests that the lever includes a cam surface (900) so that as the lever is moved toward the receiving member, the holding members are drawn closer together to further tighten the bicycle seat assembly in between the holding members.

Claim 22. Katsouros discloses that the lever comprises the locking mechanism (300).

Claim 23. Chang teaches that securing a bicycle seat assembly requires that the fixed component be a bicycle frame (as seen in figure 5).

Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Katsouros US 2002/0026816 in view of Chang, as applied to claim 1 above, and further in view of the applicant's admitted prior art.

Claim 14. Katsouros discloses that the locking mechanism is a key lock. The applicants admitted prior art (specification, p.12) states that it is well known to replace key locks with combination locks since combination locks do not require a user to carry a key. Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify the locking mechanism of Katsouros to be a key lock, for the purpose of not requiring a user to carry a key.



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### ***Response to Arguments***

Applicant's arguments with regard to the claim rejections have been fully considered but they are not persuasive.

The applicant argues that the prior art does not disclose the locking mechanism at the handle end of the lever. This is not persuasive. Katsouros discloses (as seen in the marked-up figures above) a lever (100, 200) with a pivot end (bottom half 200) and a handle end (top half 100) wherein a locking mechanism (300) is located at the handle end of the lever.

Applicant's remaining arguments have been fully considered but do not pertain to the claims as originally rejected. Rather, they regard newly added limitations and as such are considered to be moot in view of the new grounds of rejection, which were necessitated by amendment.

### ***Conclusion***

Applicant's amendment (i.e. the newly added limitation "bicycle seat assembly" in line 2 of claim 1) necessitated the new ground(s) of rejection presented in this Office action.

Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Victor MacArthur whose telephone number is (703) 305-5701.

The examiner can normally be reached on 8:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P. Stodola can be reached on (703) 308-2686. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.



VLM

June 14, 2004



**GREGORY J. BINDA  
PRIMARY EXAMINER**